

## EDITORS-IN-CHIEF

J. R. PASQUALINI and R. SCHOLLER,

Foundation for Hormone Research, 26 Boulevard Brune, 75014 Paris, France

## ASSOCIATE EDITORS

H. ADLERCREUTZ, Helsinki, Finland

M. BEATO, Marburg/Lahn, F.R.G.

J. CRABBÉ, Brussels, Belgium

E. GURPIDE, New York, U.S.A.

J.-Å. GUSTAFSSON, Huddinge, Sweden

E. V. JENSEN, New York, U.S.A.

R. J. B. KING, Guildford, England

M. E. LIPPMAN, Washington, D.C., U.S.A.

L. MARTINI, Milan, Italy

A. MUNCK, Hanover, N.H., U.S.A.

B. W. O'MALLEY, Houston, Tex., U.S.A.

D. O. TOFT, Rochester, Minn., U.S.A.

*Honorary Associate Editor:* A. E. KELLIE, Beaconsfield, England

## CORRESPONDING EDITORS

A. AAKVAAG, Bergen, Norway

S. ANANCHENKO, Moscow, U.S.S.R.

F. AURICCHIO, Naples, Italy

P. L. BALLARD, San Francisco, U.S.A.

E. W. BERGINK, Oss, The Netherlands

J. BLAQUIER, Buenos Aires, Argentina

R. BOUILLON, Leuven, Belgium

S. BOURGEOIS, San Diego, U.S.A.

A. BRODIE, Baltimore, U.S.A.

K. J. CATT, Bethesda, U.S.A.

L. CEDARD, Paris, France

J. A. CIDLOWSKI, Chapel Hill, U.S.A.

J. H. CLARK, Houston, U.S.A.

G. DAXENBICHLER, Innsbruck, Austria

L. DEHENNIN, Fresnes, France

E. R. DESOMBRE, Chicago, U.S.A.

B. N. DÍAZ-CHICO, Las Palmas, Spain

R. B. DICKSON, Washington, U.S.A.

M. L. DUFAU, Bethesda, U.S.A.

H. A. ERIKSSON, Stockholm, Sweden

K. FOTHERBY, London, England

J. W. FUNDER, Prahran, Australia

G. GREENE, Chicago, U.S.A.

K. GRIFFITHS, Cardiff, Wales

B. GRONER, Basel, Switzerland

K. B. HORWITZ, Denver, U.S.A.

I. HUHTANIEMI, Turku, Finland

D. R. IDLER, Newfoundland, Canada

V. H. T. JAMES, London, England

V. C. JORDAN, Madison, U.S.A.

J. KATO, Yamanashi-ken, Japan

B. S. KATZENELLENBOGEN, Urbana, U.S.A.

A. M. KAYE, Rehovot, Israel

F. LABRIE, Quebec, Canada

C. P. LANTOS, Buenos Aires, Argentina

S. LIAO, Chicago, U.S.A.

P. C. MACDONALD, Dallas, U.S.A.

B. S. MCEWEN, New York, U.S.A.

W. L. MCGUIRE, San Antonio, U.S.A.

E. MILGROM, Le Kremlin-Bicêtre, France

W. R. MILLER, Edinburgh, Scotland

J. MÜLLER, Zurich, Switzerland

B. E. P. MURPHY, Montreal, Canada

M. NEVES-E-CASTRO, Lisbon, Portugal

M. I. NEW, New York, U.S.A.

A. W. NORMAN, Riverside, U.S.A.

H. OKADA, Kyoto, Japan

M. J. PARKER, London, England

G. PÉREZ-PALACIOS, Mexico City, Mexico

W. B. PRATT, Ann Arbor, U.S.A.

J. P. RAYNAUD, Paris, France

H. ROCHFORT, Montpellier, France

G. ROUSSEAU, Brussels, Belgium

W. T. SCHRADER, Houston, U.S.A.

M. SERIO, Florence, Italy

E. R. SIMPSON, Dallas, U.S.A.

J. SJÖVALL, Stockholm, Sweden

A. SPÁT, Budapest, Hungary

L. STÁRKA, Prague, Czechoslovakia

R. L. SUTHERLAND, Darlinghurst, Australia

G. E. SWANECK, Miami, U.S.A.

J. R. TATA, London, England

W. TAYLOR, Tynemouth, England

P. TUOHIMAA, Tampere, Finland

S. ULICK, New York, U.S.A.

G. VERHOEVEN, Leuven, Belgium

A. VERMEULEN, Ghent, Belgium

R. VIHKO, Oulu, Finland

C. A. VILLEE, Boston, U.S.A.

A. E. WAKELING, Macclesfield, England

C. R. WIRA, Hanover, U.S.A.

### *Publishing Office*

Journals Production Unit, Pergamon Press plc, Hennock Road, Marsh Barton, Exeter, Devon EX2 8NE, England  
(Tel. Exeter (0392) 51558; Fax 425370)

### *Subscription and Advertising Offices*

*North America:* Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A.

*Rest of the World:* Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, England (Tel. Oxford (0865) 64881)

**Subscription per annum (1990), including postage and insurance. Annual institutional subscription rate (1990) DM 1910.00; 2-year institutional rate (1990/91) DM 3629.00; personal subscription rate for those whose library subscribes at the regular rate (1990) DM 195. Payments to be made in advance. Prices are subject to amendment without notice.**

**Back Issues:** Back issues of all previously published volumes, in both hard copy and in microform, are available direct from Pergamon Press offices.

Publication Frequency: 18 issues per annum

Copyright © 1990 Pergamon Press plc

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organizations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

#### **Photocopying information for users in the U.S.A.**

The Item-fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the U.S. Copyright Law, is paid. The appropriate remittance of \$3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 27 Congress Street, Salem, MA 01970, U.S.A.

#### **Permission for other use**

The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works or for resale. Specific written permission must be obtained from the publisher for such copying. *The Item-fee Code for this publication is: 0960-0760/90 \$3.00 + 0.00*